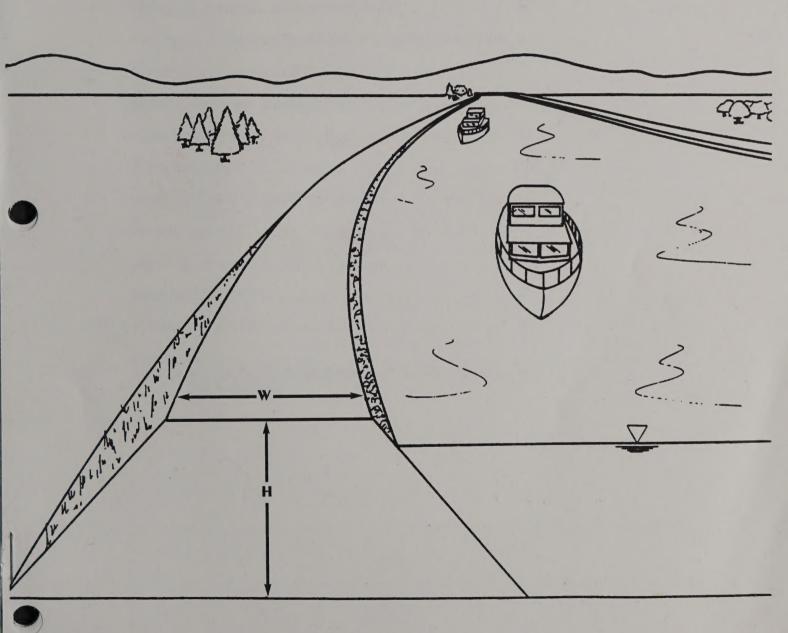
# STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION



1998 CANAL
IMPOUNDING EMBANKMENT
CONDITION SURVEY

# GEOTECHNICAL ENGINEERING BUREAU





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# STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION ALBANY, N.Y. 12232

JOSEPH H. BOARDMAN COMMISSIONER

GEORGE E. PATAKI

September 10, 1999

Mr. Duane Dodds, Director Design Bureau, 3rd Floor c/o NYS Thruway Authority 200 Southern Blvd. P.O. Box 189 Albany, NY 12201-0189

Dear Mr. Dodds:

Address Reply To: Mr. Wesley P. Moody, Director NYS Dept. of Transportation Geotechnical Engineering Bureau Bldg. 7 - State Campus 1220 Washington Avenue Albany, NY 12232-0863

The purpose of this report is for this Bureau to provide field evaluations of the water impounding embankments along the Canal. Our inspections evaluate the conditions of the earth embankments only. We understand that the structure portions (concrete walls and culverts) are inspected by each Division. Some culverts have water leaking into them from joints or possibly cracks. Only at locations where structural deficiencies are causing stress to the embankment area have we included them in our evaluations.

Attached please find the summary of the 1998 Canal Impounding Embankment Condition Survey. The Condition Survey was compiled with the use of the thermal imaging report prepared by PAR Government Systems Corporation, March 26, 1998 (based on a flight flown in fall of 1997) and the physical site inspections performed by various members of this Bureau, with assistance from Division personnel. The thermal imaging report covers most of the embankment involved. The printed thermal imaging report was used as an overview of the Canal, and the images on disk (viewed with Arc View) allow zooming to a specific site for more detail.

The summary charts provide both a rating and ranking system for each portion of embankment to catagorize embankment condition and help prioritize repairs, where necessary. Notice that the report format has been restructured. The following changes have been made:

- 1. The report is organized by the county in which the Canal is located and the side of the Canal the embankment is located (North, South, East, West).
- 2. At your request, the rating system has been changed to a scale of one (1) to seven (7) to conform to the Canal Maintenance Quality Manual 1993, Appendix G, Page 20,



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Dear Mr. ToolAss

The purpose of its region is for this there is no moved. But evaluations of the water impounding embands over the conditions of the carbon embands embands only. We understand that the structure portions (contribute walls and culverns) are inspected by each Division. Some conservations when these water bearing out their from joints or possibly cracks. Only at locations when administration are consequent are the consequent tree has we restolded them in our evaluations.

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Address Socily To:
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NYS Dept. of Transportation
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230 Westimeson Avenue
Alberts, MY 12232-3843

Duane Dodds September 10, 1999 Page 2

(prepared by others) rather than the one (1) to four (4) rating system established by this Bureau in 1988. In both systems, low numbers indicate more severe problems.

# 3. The station limits have been modified:

- a. Several embankment sections less than five feet in height have been removed from the list. Embankments retaining less than a few feet of water (because of the inboard freeboard) should not be included.
- b. Embankment sections adjacent to each other have been combined where appropriate.
- c. Embankment stations have been adjusted to reflect the station limits determined from the residency sheet and reported on the field inspections sheets.

Additionally, the Risk Assessment system this Bureau uses to evaluate the individual embankment sections has been revised. Our former system used a sliding numerical scale for rating the sites to create a bias when ranking the problem areas, and the scale is now a linear numerical scale. Also, two categories were added. The two parameters that were added - outboard slope vegetation growth, and inboard slope condition - appeared so frequently in the comments section of the evaluation forms, that it was necessary to include them as categories.

The evolution of the numerical rating system came about through the experience of completing two inspections, one in 1988 and one in 1993. When the old rating system was devised for the 1988 field survey, we had no previous inventory to use as a basis for the range of severity and number of problem sites that would be encountered. Thus, a very broad band rating system was instituted that facilitated the ranking process. Since many of the serious problem sites have been repaired through the diligent effort of Canal Maintenance forces and the expenditure of contract funds, the latitude originally designed into the rating system is not needed. For the serious life threatening problems that may be found, the new system still has provisions to recommend immediate repair or frequent ( weekly) monitoring.

To understand how these two systems compare, see the attached Figures 1, 2, and 3 which explain the changes to the risk assessment systems. The first shows the current rating/ranking system, the second shows the original rating/ranking system, and the third compares or superimposes the two.

As of this date, there are six project sites under construction or in the final stages of design, that have been identified as Class (2) {need repair} under the old system. They would have been rated the same under the new system.

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has of this days there are an proven into under comments or in in that maps of danger that here have identified as Click Co. (need night) outer the old system. They would have been used to a store ender the right.

Duane Dodds September 10, 1999 Page 3

There were several sites around Rochester which had significant tree damage from the September 1998 wind storm. Many areas were not cleared or restored prior to the fall inspection, thus we recommend a follow up inspection in the Fall of 1999 to evaluate embankment conditions as a result of tree blow downs (root systems remove a large portion of earth) or the clean-up operations. It is because of this type of damage that past inspection reports recommended that trees be removed from the embankment slopes, as required by dam maintenance guidelines. Currently, the Canal Corporation is seeking input from the parties involved in dam design & evaluation to develop a method to address all the existing woody growth (trees and bushes) and the resulting root system.

If you have any questions, call T. Minnitti @ 457-4782.

Sincerely,

WESLEY P. MOODY, Director Geotechnical Engineering Bureau

ORIGINAL SIGNED BY

By:

Phillip A. Walton Associate Soils Engineer

PAW/AM/DJB Attachments

c: Paul J. Mack, Director, Technical Services Division, 7A-210, MC 0862

Done Dolls September III, 1999 Page 3

These were several via transported for new orders and arguifform tree daying a form the September for which starts. Many street were not alread or respond prior to the fell inspectable that we remained a following representations as a result of the blood downs from every method to the start of earth) or the clean-up operations. If it because of this type of orders that part that part and represent the clean-up operations. If it has combanished the start of the combanished that the beautiful that the Carallest and the combanish is earlier from the period of the Carallest of the start of the combanish or the resulting orders and the resulting root system.

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Sincerely

WESLEY P. MOODY Unstar Genechmical Engineering Sureau

ENGLINAL SIGNED BY

Phillip A Wallot

PAW/AM/DIE

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		1998	- 1	RISK ASSESSMENT SYSTEM	SYSTEM			
PARAMETER	WEIGHTED FACTORS							RANK
	5	0	-		m		40	
SEEPAGE	CRITERIA	NONE	MOIST AREA		BLEEDING		SEEPAGE	
	Description		SOFT TO WALK ON		CATTAILS ON SLOPE		*	
TOP WIDTH	က	0	1	2	e	4	5	
(SEE TABLE "A" ATTACHED)	CRITERIA	EQUAL TO OR GREAT OR THAN	LESS BY 5'	LESS BY 10'	LESS BY 15'	LESS BY 20'	LESS THAN 5' WIDE	
OUTBOARD EMBANKMENT	-	0	-	2	3	4	2	
HEIGHT	CRITERIA	LESS THAN 5'	5'	10,	15'	20,	GREATER THAN 20'	
OUTBOARD SLOPE	က	0		2		4	2	
1VERTICAL ON ?? HORIZONTAL	CRITERIA	1V ON 3H OR FLATTER		1 ON 2		1 ON 1	STEEPER THAN 1 ON	
OUTBOARD SLOPE	-	0		2		4	5	
GROWTH	CRITERIA	GRASS		WOODY GROWTH		TREES	COMPLETELY OVERGROWN	
INBOARD SLOPE	1	0	-		6		5	
CONDITION (1V ON 2H STANDARD)	CRITERIA	RIP-RAP IN PLACE	SLOPE STABLE		SLOUGHING		ERODED	
ADJACENT TERRAIN	1	0	1		8		5	
	CRITERIA	LAND SLOPES UPHILL	WOODED-NO HOMES VISIBLE		ACTIVE FARMLAND		DEVELOPED	
							TOTAL	
** NOTIFY CANAL S	SUPERINTE	CANAL SUPERINTENDENT IMMEDIATELY	LATELY		RATII	RATING SYSTEM		
PLEASE PROVIDE COMMENTS BELOW IF A FIELD CONDITION EXISTS WHICH IS NOT ACCOUNTED FOR WITHIN THE TABLE (e.g. SLOUGHING, EROSION, DISTRESSED STRUCTURE, etc.).	IF A FIELD CO	NDITION EXISTS RE, etc.).		1= Immediate emerg 2= Begin monitoring 3= Should be impro 4= Should be impro 5= Satisfactory but 6= Normal aging 7= No Deterioration	Immediate emergency contract recom Begin monitoring system and schedul Should be improved prior to next 5 ye Should be improved as part of normal Satisfactory but shows signs of aging Normal aging	1= Immediate emergency contract recommended 2= Begin monitoring system and schedule repairs soon 3= Should be improved prior to next 5 year inspection 4= Should be improved as part of normal scheduling 5= Satisfactory but shows signs of aging 6= Normal aging 7= No Deterioration 7= No Deterioration	airs soon airs soon pection duling	

FIGURE 1 - EMBANKMENT RATING SYSTEM REVISED IN 1998



# RISK ASSESSMENT

		Ĭ N	WEIGHTED POINTS		
PARAMETER		* NOTE: INTERPOLATION BETWEEN PO	* NOTE: INTERPOLATION BETWEEN POINTS IS BASED UPON THE INSPECTOR'S OBSERVATIONS	DBSERVATIONS	* INSPECTOR'S RANKING
SEEPAGE	1	BLEEDING	36	216   FLOWING WATER   CARRYING FINES **	
OUTBOARD SLOPE	1V ON 3H OR FLATTER	STEEPER THAN 1V ON 3H	16	64 1V ON 1H OR STEEPER	
EMBANKMENT HEIGHT	5.	10'	15'	64 20' OR GREATER	
тор WIDTH	1	4	16	64 CABLE "A" BY MORE THAN 15' OR LESS THAN 10' WIDE	
ADJACENT TERRAIN	1—————————————————————————————————————	4	16	64 DENSELY DEVELOPED	
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# FIGURE 2 - RATING FORM USED IN 1987 AND 1993 INSPECTIONS

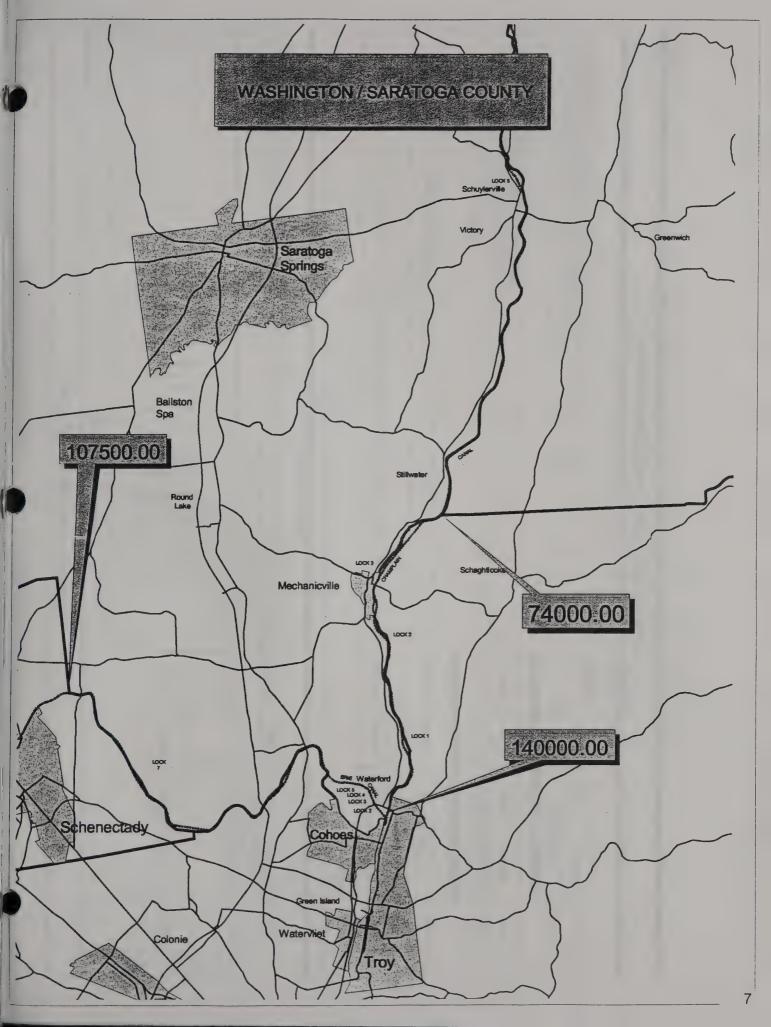


7= No Deterioration

FIGURE 3 - COMPARISON OF THE TWO RATING SYSTEMS

RATING







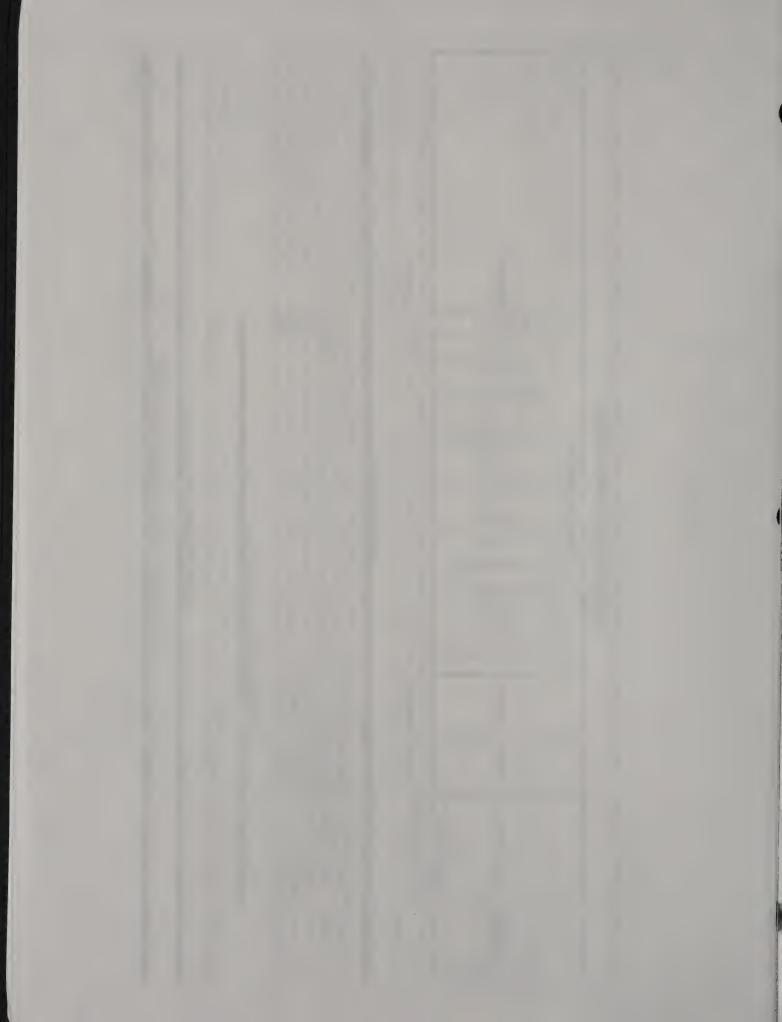
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		CHAMPLAIN CANAL														
-	ALB-1	897+50 (Lock C-3)	WESTSIDE	SARATOGA	0	0	2		9	0	H	0	0	00	7	
		OLD CHAMPLAIN CANAL														
-	ALB-1	in WATERFORD	EASTSIDE	SARATOGA	0	0	0		0	4		-	2	10	7 Fulton ST. to G.E. Landfill	
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_	ALB-1	GLENS FALLS FEEDER														
-	ALB-1	96+00 168+00	SOUTHSIDE	SARATOGA	15	0	5		9	2		0	4-	29	Rt 4 to Quaker Rd- Wet along toe of slope - Comment and drawing with inspection form	Comment
-	ALB-2	ERIE CANAL														
-	ALB-2	234+00 242+00	NORTHSIDE	SARATOGA	5	0	4		9	2		0	5	22	Lock E-4, Boil visible within lock - Wet along toe of slope. Comments and drawing with inspection form.	toe of on form.

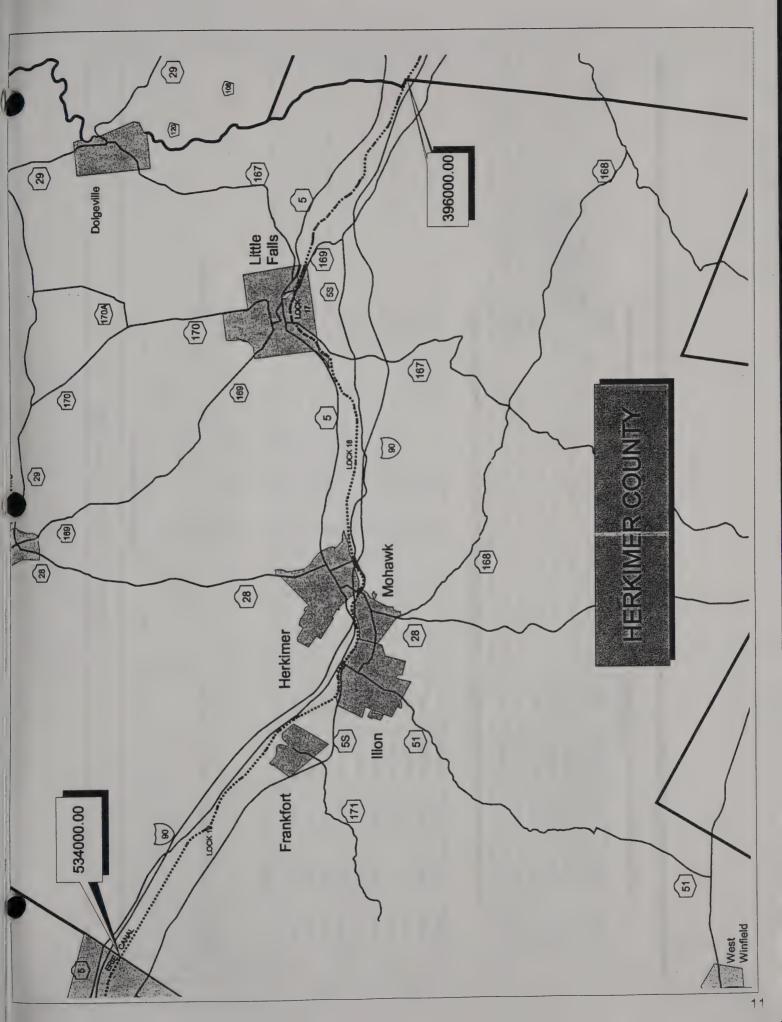
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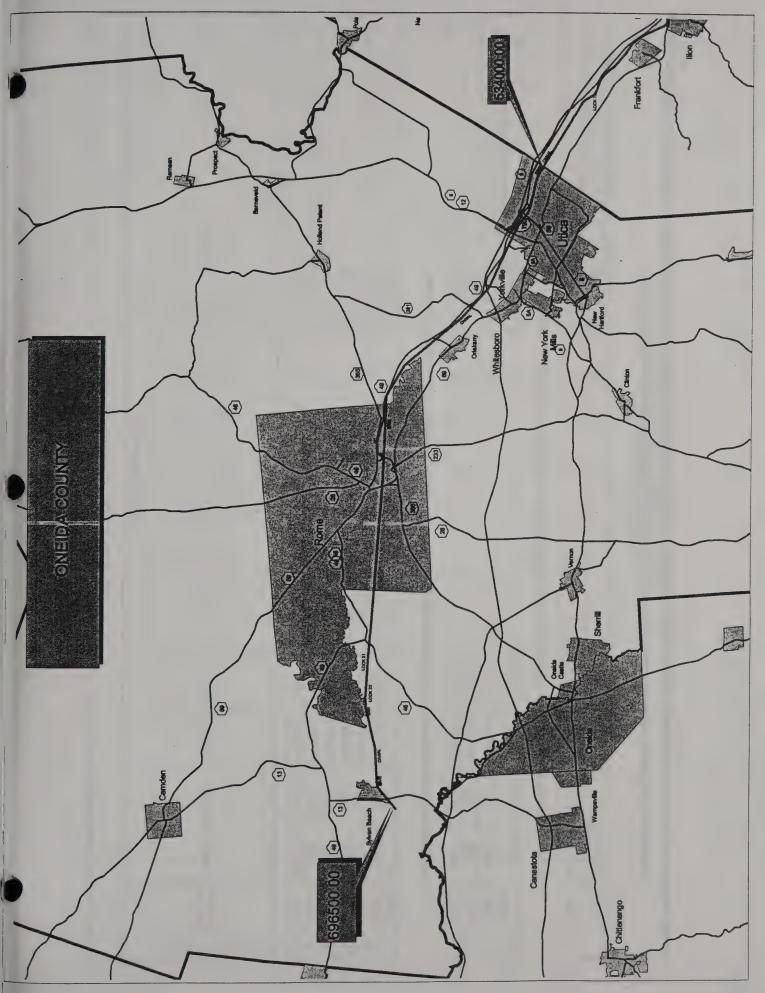




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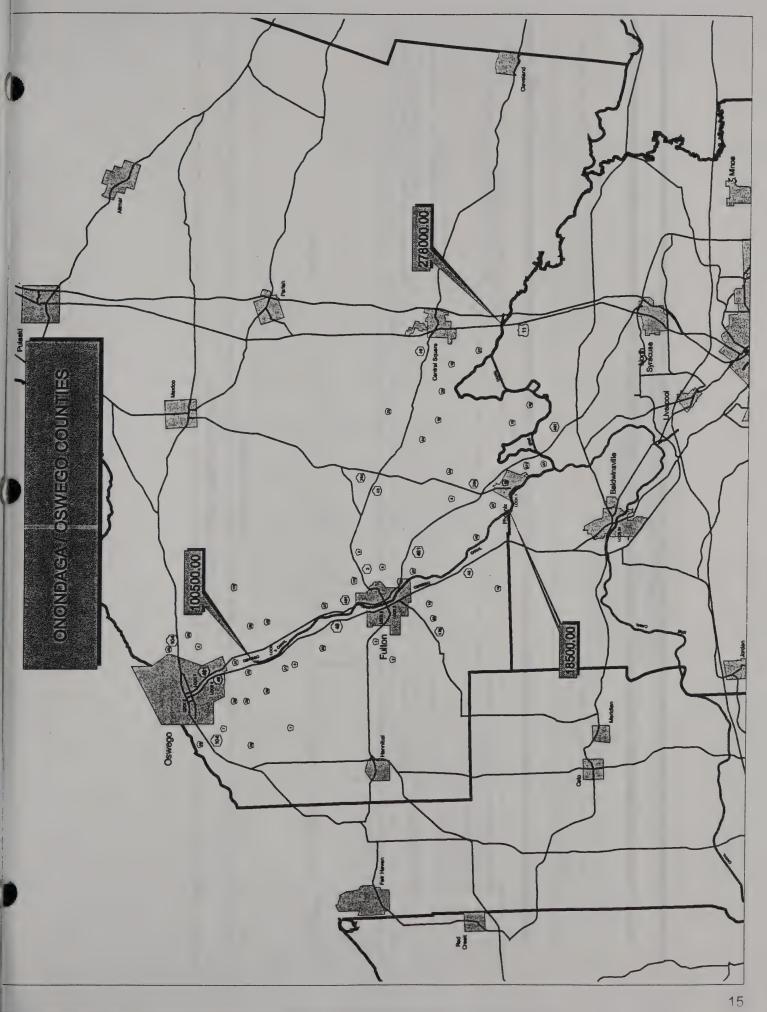




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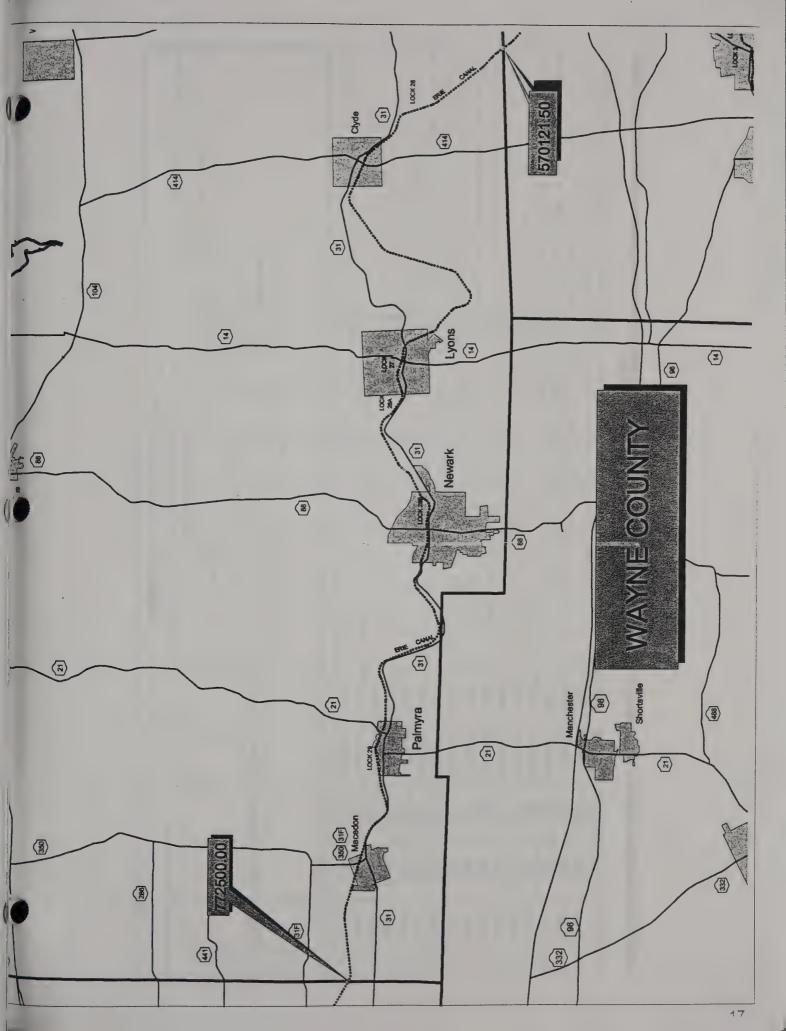
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# OSWEGO COUNTY

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CANAL STATIONING OFFSET COUNTY P O D O M O O O O O O O O O O O O O O O O								RISK	RISK ASSESSMENT	SSME	5					
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FROM         TO         O         O         O         O         A         11           6631         6639+50         SOUTHSIDE         WAYNE         O         O         O         O         A         11           6639+50         6648 +/-         SOUTHSIDE         WAYNE         O         O         O         O         A         11           6710 +/-         6710 +/-         SOUTHSIDE         WAYNE         A         O         O         O         O         O         A         11           7400         7422         SOUTHSIDE         WAYNE         O         O         O         O         O         O         O         A         11         T         T         T         O         O         O         O         O         O         O         A         I <td>00</td> <td></td> <td></td> <td></td> <td>ш ш С ⋖ С Ш</td> <td></td> <td></td> <td>ロコーのエト</td> <td></td> <td></td> <td>Z 80 4 K 0</td> <td></td> <td></td> <td></td> <td>COMMENTS</td> <td></td>	00				ш ш С ⋖ С Ш			ロコーのエト			Z 80 4 K 0				COMMENTS	
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6639+50         6648         SOUTHSIDE         WAYNE         6648 +/-         6648 +/-         SOUTHSIDE         WAYNE         7         17         17           6649+50         6710         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           6710 +/-         6710 +/-         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           7387         7400         SOUTHSIDE         WAYNE         8         3         3         2         1         1         17           7400         7422         SOUTHSIDE         WAYNE         8         8         3         2         1         1         17	8	6631	-		0	0	3		2	2	0			┨ ├─		
6648 +/-         6648 +/-         SOUTHSIDE         WAYNE         A3         3         2         1         17           6649+50         6710         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           6710 +/-         6710 +/-         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           7387         7400         SOUTHSIDE         WAYNE         8         3         3         2         1         1         17           7400         7422         SOUTHSIDE         WAYNE         8         3         3         2         1         1         17	R-6	6639+50												+-		
6649+50         6710         SOUTHSIDE         WAYNE         4         3         3         2         1         17           6710 +/-         6710 +/-         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           7387         7400         SOUTHSIDE         WAYNE         8         7422         SOUTHSIDE         WAYNE         8         7400         7422         SOUTHSIDE         WAYNE         8         7400         7422         SOUTHSIDE         WAYNE         8         7400         7422         7400         7400         7400         7400         7400         7400         7400         7400         7400 <td>R-6</td> <td>6648 +/-</td> <td></td> <td>5</td> <td></td> <td></td>	R-6	6648 +/-												5		
6710 +/-         6710 +/-         SOUTHSIDE         WAYNE         4         3         3         2         1         1         17           6710         6751         SOUTHSIDE         WAYNE         8         7400         SOUTHSIDE         WAYNE         8         7400         T422         SOUTHSIDE         WAYNE         8         8         7400         T422         SOUTHSIDE         WAYNE         8	Re	6649+50												9		
6710         6751         SOUTHSIDE         WAYNE           7387         7400         SOUTHSIDE         WAYNE           7400         7422         SOUTHSIDE         WAYNE	R-6	6710 +/-			4	3	3		3	2	-			-		
7387 7400 SOUTHSIDE WAYNE 7422 SOUTHSIDE WAYNE	R-6	6710												-		
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	SYR-6	oswego Canal-South of Lock 2	h of EASTSIDE	DE										9		

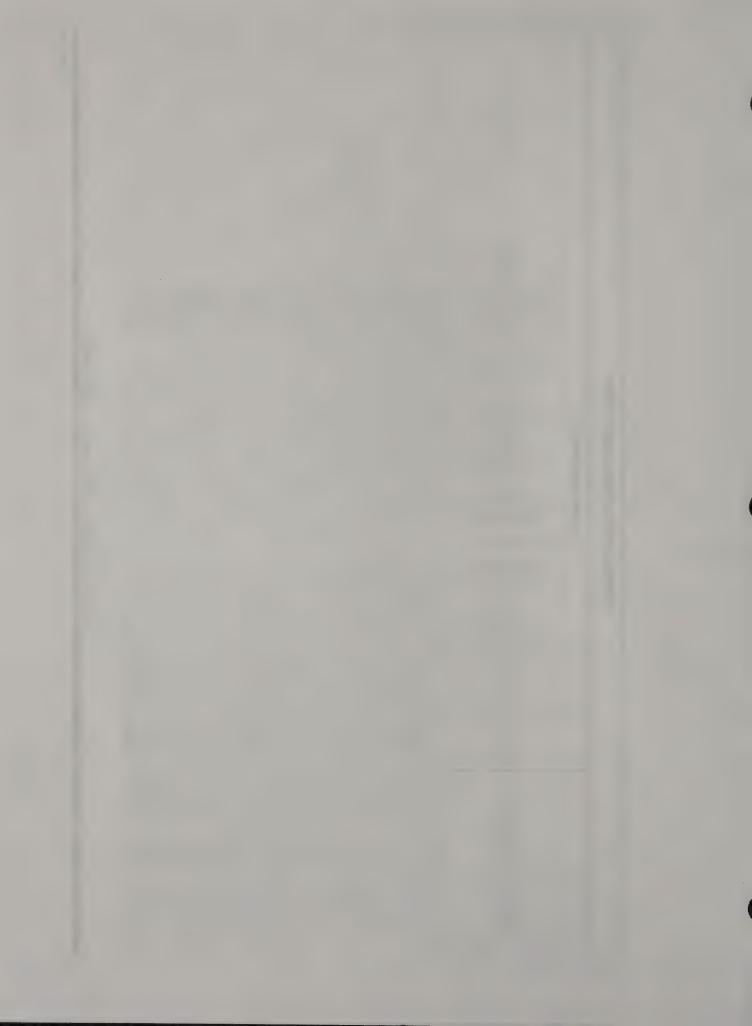






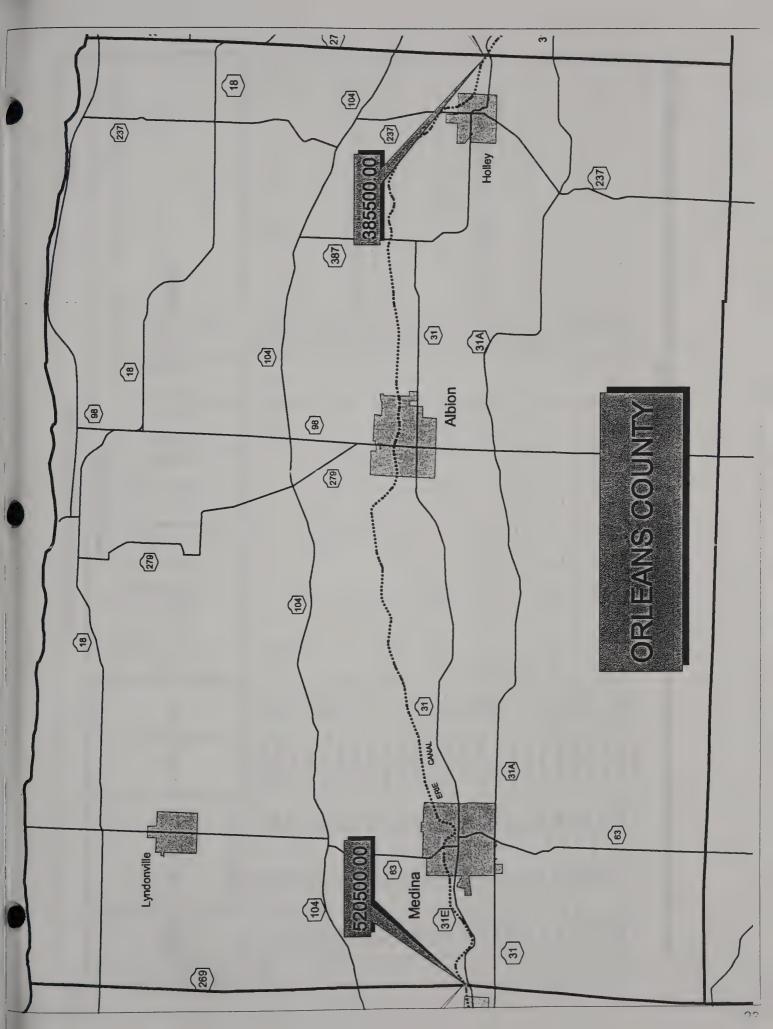
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DIVISION-		CANAL STATIONING	OFFSET	COUNTY	ош ш в ∢ С ш	}-0+I ⊢04		IM-0IH	O D F B O 4 R D	O⊃-804ED ORO≯-∓	-zmo <x0< th=""><th>MTOPS ADJACMSH</th><th><b>⊢ Ⅲ ℃ ₹ ← Z</b></th><th>FOF41</th><th>COMMENTS</th></x0<>	MTOPS ADJACMSH	<b>⊢ Ⅲ ℃ ₹ ← Z</b>	FOF41	COMMENTS
	FROM	OT I													
4 BUF-7	1925	2001	NORTHSIDE	MONROE	0	0	5		3	4	0		2	17 6	
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BUF-7	2064	2066	NORTHSIDE	MONROE	0	0	5		0	2	0		5	15 6	
BUF-7	2067	2075	NORTHSIDE	MONROE	0	0	0		+	0	0		5	9	
BUF-7	2085	2125	NORTHSIDE	MONROE											Trees down. Check in the fall of 1999
BUF-7	2136	2170	NORTHSIDE	MONROE									-		Trees down. Check in the fall of 1999
BUF-7	2225	2265	NORTHSIDE	MONROE	0	0	5		0	0	0		5	10 6	
BUF-7	3050	3079	NORTHSIDE	MONROE	5	4	4		2	4	0			23 6	
BUF-7	3107	3188	NORTHSIDE	MONROE	0	0	4		9	4	0			17 6	
BUF-7	3220	3280	NORTHSIDE	MONROE	10	4	3		6	4	0			35 5	
BUF-7	3300	3315	NORTHSIDE	MONROE	0	3	3		10	-	0			-	
BUF-7	3315	3360	NORTHSIDE	MONROE	20	5	3		8	2	0			-	
BUF-7	3360	3395	NORTHSIDE	MONROE	0	0	-		-	4	0			10 6	
BUF-7	3400	3436	NORTHSIDE	MONROE	0	9	3		7	0	0			20 6	
BUF-7	3441	3480	NORTHSIDE	MONROE	0	5	5		6	-	0				
BUF-7	3520	3527	NORTHSIDE	MONROE	0	3	2		2	5	0			14 6	
BUF-7	3572	3592	NORTHSIDE	MONROE	0	0			9	2	0			12 6	
BUF-7	3610	3630	NORTHSIDE	MONROE	0	0	1		6	4	0			17 6	
BUF-7	3630	3736	NORTHSIDE	MONROE	0	12	1		13	4	0			35 5	
A RISE.7	3742	2844	-		S	,								ļ	

MONROE COUNTY - ERIE CANAL - NORTHSIDE



SUMMARY FOR 1998 IN:			COMMENTS		BUSHNELL BASIN SEWER SITE	LARGE TREES DOWN-REINSPECT TO DETERMINE CLEANUP		WATER LEVEL AT TOE EQUAL TO WATER IN CANAL	NOT ACCESSABLE				EAST OF ADAMS BASIN							
SUMMARY FOR 1998 INSPECTION  CANAL STATIONING OFFSET COUNTY P O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-			-	~	-	<del>                                     </del>				-	-	-	_		9
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			OFFSET		SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE
			ATIONING		2066	2140	2305	3072	3188	3282	3311	3350	3445	3480	3645	3670	3725	3768	3823	3890
TON TO			CANAL ST		2064	2105	2235	3050	3173	3265	3305	3342	3430	3445	3630	3665	3710	3740	3773	3847
SECTION SECTIO			DIVISION- SECTION		BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7
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ORLEANS COUNTY - ERIE CANAL - NORTHSIDE

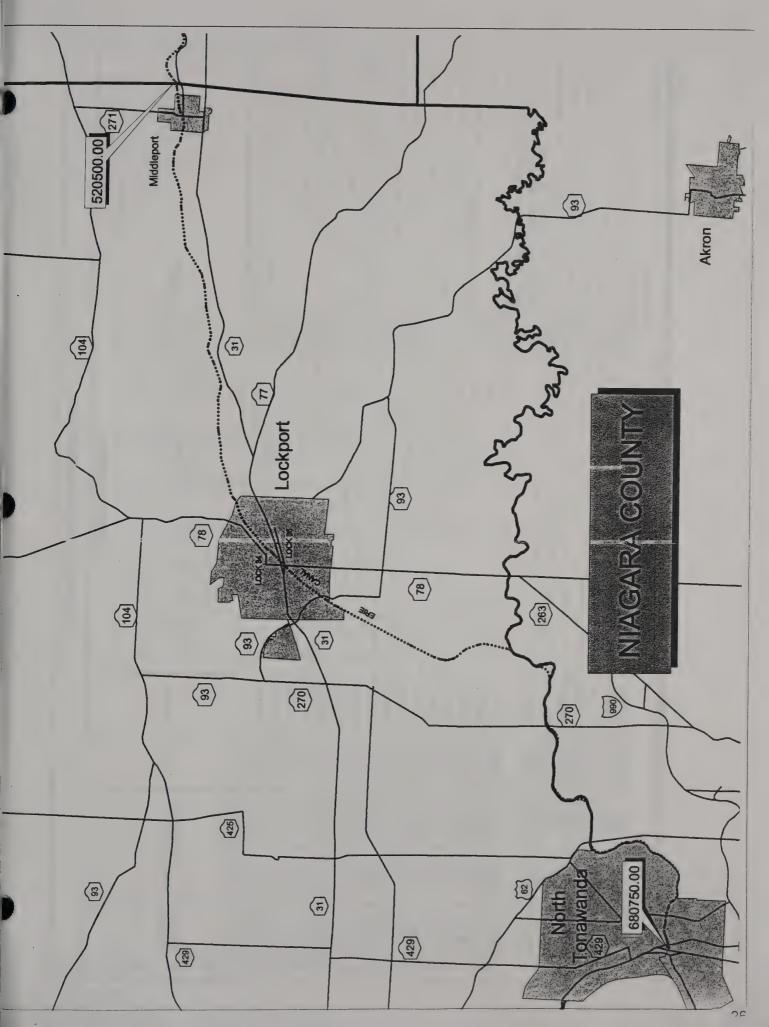
		COMMENTS							MANY WATER FILLED QUARRIES NEAR TOF								CULVERT #86-SHEETING PRESENT IN EMBANKMENT										
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		OFFSET	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE	NORTHSIDE
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		TIONING	3895	3929	3956	4024	4087	4123	4273	4409	4419	4494	4523	4584	4590	4600	4607	4619	4687	4700	4780	4800	4850	4864	4900	5169	5206
		CANAL STATIONING	3860	3905	3930	3965	4074	4099	4134	4307	4409	4420	4510	4523	4584	4590	4603	4615	4619	4687	4700	4780	4810	4852	4864	2006	5185
		SECTION	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7
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ORLEANS COUNTY - ERIE CANAL - SOUTHSIDE

		COMMENTS		CULVERT #65-COUNTY LINE	CULVERT #66- TREE DAMAGE	AROUND CULVERTS #73 & 74-SMALL PONDS ADJACENT AT SAME ELEV.	CULVERT # 75 & 76		CULVERT #82-NEEDS INBOARD WORK	SHOULD DO STONE INBOARD WORK	ENDS AT CULVERT #84	ENDS AT WIDE WATERS	TREES BLOWN DOWN-CULVERT #86	TREES BLOWN DOWN-NEAR WASTE WIER	CULVERT #87	CULVERT #88- MIN. EMB.	SLOUGHED INBOARD SLOPE	SECTION ENDS AT CULVERT #95-CULVERT LEAKS EVEN THOUGH RELINED	CULVERT #99-BEALS ROAD	CULVERT #103-NEW SITE-SLOPE ADJACENT TO PIPE ERODED BY STREAM	
		24Z0		5	5	9	5	4	2	4	4	9	4	2	9	5	4	4	5	6	
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		OFFSET		SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE
		TIONING	10	3925	3960	4275	4395	4420	4492	4528	4540	4584	4590	4595	4611	3882	4650	4864	4900	5131	5150
		CANAL STATIONING	FROM	3913	3930	4250	4355	4409	4450	4512	4530	4579	4584	4590	4603	3880	4641	4852	4895	5130	5028
		DIVISION.		BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7	BUF-7		BUF-7	BUF-7	BUF-7	BUF-7	BUF-7
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FROM   TO   TO   MICARA   D   12   2   12   4   0   3   31   5   5   5   5   5   5   5   5   5	SEC	TION		ATIONING	OFFSET	COUNTY	<b>∾ Ⅲ Ⅲ ┏ ⋖ ⊙</b> Ⅲ						-280480		<b>⊢ m द द ∢ − ∑</b>				
5206         5222         INAGARA         0         12         2         12         4         0         3         3         5         6         1         0         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6         4         3         6			FROM	10															
5206         5222         NORTH-SIDE         NINGARA         0         12         2         12         4         0         3         3         3         3         3         3         3         4         5         6         5         7         7         7         7         7         7         7         7         7         7         7         6         6         1         0         4         0         4         0         4         0         4         0         4         0         4         0         4         0         4         0         4         0         4         0         0         4         0         0         4         0         0         4         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td></td> <td>-</td> <td></td> <td></td> <td></td>																-			
5222         5240         NORTHSIDE         NAGARA         0         9         3         9         3         0         3         5         5           5376         5295         NORTHSIDE         NAGARA         0         6         3         6         1         0         4         20         6           5336         5329         NORTHSIDE         NAGARA         0         6         2         0         4         30         4           5334         5354+50         NORTHSIDE         NAGARA         0         6         2         0         4         30         4           5354+50         5354+50         NORTHSIDE         NAGARA         0         6         2         0         4         30         4           53445         5435         NORTHSIDE         NAGARA         0         12         6         2         0         4         3         5         4           5415         5425         NORTHSIDE         NAGARA         0         12         6         1         0         3         1         5         4         4         0         1         2         0         1         2         0	8	BUF-7	5206	5222	NORTHSIDE	NIAGARA	0	12	2	-	12	4	0		3	$\vdash$			
5276         5295         NORTHSIDE         NIAGARA         0         6         3         6         1         0         4         20         6           5315         5325         NORTHSIDE         NIAGARA         10         9         5         6         2         0         4         36         4           5332         5339         NORTHSIDE         NIAGARA         0         6         2         9         2         0         4         36         4           5339         5344-50         NORTHSIDE         NIAGARA         0         6         2         9         2         0         1         2         6         1         0         1         2         6         1         0         1         2         6         1         0         1         2         6         1         0         1         2         0         3         2         6         4 <t< td=""><td>8</td><td>BUF-7</td><td>5222</td><td>5240</td><td>NORTHSIDE</td><td>NIAGARA</td><td>0</td><td>6</td><td>3</td><td></td><td>6</td><td>3</td><td>0</td><td></td><td>3</td><td>+-</td><td></td><td></td><td>T</td></t<>	8	BUF-7	5222	5240	NORTHSIDE	NIAGARA	0	6	3		6	3	0		3	+-			T
5315         SASE         NORTHSIDE         NIAGARA         10         9         5         6         2         0         4         36         4           5332         5339         NORTHSIDE         NIAGARA         0         6         2         9         2         0         1         20         6           5339         5354+50         NORTHSIDE         NIAGARA         0         9         5         6         1         0         1         2         0         1         2         0         1         2         0         1         2         0         1         2         0         1         2         0         3         2         6         1         0         3         2         6         1         0         3         3         4         4         4         1         1         5         4         4         1         1         5         4         4         4         1         2         4         4         1         1         5         4         4         1         1         2         4         4         1         1         4         4         4         4         4	ш	BUF-7	5276	5295	NORTHSIDE	NIAGARA	0	9	3		9	-	0	-	4	+			
5332         NORTHSIDE         NUAGARA         0         6         2         9         2         0         1         20         6           5334         5354+50         NORTHSIDE         NINGARA         0         9         5         6         1         0         1         2         6           5354+50         5354+50         NORTHSIDE         NINGARA         10         6         4         0         2         0         1         2         4           5397         5415         NORTHSIDE         NINGARA         0         12         5         0         3         2         6         7         1         1         2         4           5425         S436         NORTHSIDE         NINGARA         0         3         2         6         4         0         1         1         5         4         6         4         0         1         1         5         4         6         4         0         1         1         1         1         5         4         6         4         0         1         1         1         1         1         1         1         1         1         1	-	BUF-7	5315	5325	NORTHSIDE	NIAGARA	10	6	5		9	2	0	-	4	+			
5339         5354+50         NORTHSIDE         NUAGARA         0         9         5         6         1         0         1         22         5           5334+50         5397         NORTHSIDE         NINGARA         10         6         4         0         2         0         3         25         4           5397         5415         NORTHSIDE         NINGARA         0         12         5         9         5         0         3         26         4         4         1         4         4           5415         5436         NORTHSIDE         NINGARA         0         3         2         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         2         0         4         0         0         1         2         1         1         1         6         4         0         1         4	ш	BUF-7	5332	5339	NORTHSIDE	NIAGARA	0	9	2		6	2	0	-	-	+-			T
5354+50         5397         NORTHSIDE         NIAGARA         10         6         4         0         2         0         3         25         4           5337         5415         NORTHSIDE         NIAGARA         0         12         5         9         5         0         3         2         6         4         0         3         34         4           5415         5425         NORTHSIDE         NIAGARA         0         3         2         6         4         0         1         1         6         5         6         4         0         1         1         6         5         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         4         0         1         1         6         2         1         4         6         4         1         6         4 <td< td=""><td>ш</td><td>BUF-7</td><td>5339</td><td>5354+50</td><td>NORTHSIDE</td><td>NIAGARA</td><td>0</td><td>6</td><td>5</td><td></td><td>9</td><td>-</td><td>0</td><td></td><td>-</td><td>-</td><td></td><td></td><td>T</td></td<>	ш	BUF-7	5339	5354+50	NORTHSIDE	NIAGARA	0	6	5		9	-	0		-	-			T
5397         5415         NORTHSIDE         NIAGARA         0         12         5         9         5         0         3         34         4           5415         5425         NORTHSIDE         NIAGARA         0         3         2         6         4         0         1         5           5425         5436         NORTHSIDE         NIAGARA         0         3         2         6         4         0         1         16         5           5436         5482         NORTHSIDE         NIAGARA         0         0         2         0         2         1         3         8         6           5482         5489         5566         NORTHSIDE         NIAGARA         0         0         4         6         2         1         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4         6         4 <t< td=""><td>4</td><td>BUF-7</td><td>5354+50</td><td>5397</td><td>NORTHSIDE</td><td>NIAGARA</td><td>10</td><td>9</td><td>4</td><td></td><td>0</td><td>2</td><td>0</td><td></td><td>3</td><td>+-</td><td></td><td></td><td>T</td></t<>	4	BUF-7	5354+50	5397	NORTHSIDE	NIAGARA	10	9	4		0	2	0		3	+-			T
5415         5425         NORTHSIDE         NIAGARA         0         3         2         6         2         1         3         17         5           5425         5436         NORTHSIDE         NIAGARA         0         3         2         6         4         0         1         16         5           5436         5482         NORTHSIDE         NIAGARA         0         0         2         0         2         1         3         8         6           5482         5589         NORTHSIDE         NIAGARA         0         0         4         6         2         1         4         6         4 </td <td>ш</td> <td>BUF-7</td> <td>5397</td> <td>5415</td> <td>NORTHSIDE</td> <td>NIAGARA</td> <td>0</td> <td>12</td> <td>2</td> <td></td> <td>6</td> <td>5</td> <td>0</td> <td></td> <td>3</td> <td>₩</td> <td></td> <td></td> <td></td>	ш	BUF-7	5397	5415	NORTHSIDE	NIAGARA	0	12	2		6	5	0		3	₩			
5425         5436         NORTHSIDE         NIAGARA         0         3         2         6         4         0         1         16         5           5436         5482         NORTHSIDE         NIAGARA         0         0         2         0         2         1         3         8         6           5482         5482         NORTHSIDE         NIAGARA         0         0         5         6         1         0         2         14         5           5489         5586         NORTHSIDE         NIAGARA         0         0         3         4         6         2         1         4         2         4           5586         S605         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         7         6           5605         S614         S700         NORTHSIDE         NIAGARA         0         3         2         1         1         1         4         1         6         2         1         4         6         2         1         4         1         6         2         1         1         1         1 <t< td=""><td>-</td><td>BUF-7</td><td>5415</td><td>5425</td><td>NORTHSIDE</td><td>NIAGARA</td><td>0</td><td>3</td><td>2</td><td></td><td>9</td><td>2</td><td>-</td><td></td><td>3</td><td>╌</td><td></td><td></td><td>T</td></t<>	-	BUF-7	5415	5425	NORTHSIDE	NIAGARA	0	3	2		9	2	-		3	╌			T
5436         5482         NORTHSIDE         NIAGARA         0         0         2         0         2         1         3         8         6           5482         5489         NORTHSIDE         NIAGARA         0         0         5         6         1         0         2         14         5           5489         5586         NORTHSIDE         NIAGARA         0         9         4         6         1         0         2         14         5           5586         5559         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         7         6           5605         5614         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         4         6           5604         5700         NORTHSIDE         NIAGARA         0         3         2         3         1         4         6         5         1         4         6         2         1         4         6         2         1         4         6         2         1         4         6         4         1	-	BUF-7	5425	5436	NORTHSIDE	NIAGARA	0	3	2		9	4	0		-	┼			Т
5482         5489         NORTHSIDE         NIAGARA         0         0         5         6         1         0         2         14         5           5489         5586         NORTHSIDE         NIAGARA         0         9         4         6         2         1         4         26         4           5586         5589         NORTHSIDE         NIAGARA         0         0         3         0         2         1         4         26         4           5605         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         7         6           5604         5605         NORTHSIDE         NIAGARA         0         9         4         6         2         1         1         4         1         6           5604         5700         NORTHSIDE         NIAGARA         0         3         2         3         1         4         6         5           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         2         4         5           57	8	BUF-7	5436	5482	NORTHSIDE	NIAGARA	0	0	2		0	2	-	-	3	+			
5489         5586         NORTHSIDE         NIAGARA         0         9         4         6         2         1         4         26         4           5553         5559         NORTHSIDE         NIAGARA         0         0         3         0         2         1         1         4         6           5586         5605         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         6         4           5605         5614         NORTHSIDE         NIAGARA         0         9         4         6         2         1         1         1         6           5604         5700         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         1         5           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         2         4         6           5730         5745         NORTHSIDE         NIAGARA         10         1         1         1         1         4         1         4         4	m	BUF-7	5482	5489	NORTHSIDE	NIAGARA	0	0	2		9	-	0		2	+			
5558         5559         NORTHSIDE         NIAGARA         0         3         0         2         1         1         6           5586         5605         NORTHSIDE         NIAGARA         0         0         3         0         2         1         1         1         6           5605         5614         NORTHSIDE         NIAGARA         0         0         4         6         2         1         1         1         6           5645         5656         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         1         5           5700         5714         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         6           5730         S730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         2         4         6           5730         S745         NORTHSIDE         NIAGARA         10         12         3         9         1         4         4         4         4         4         4         4         4	-	BUF-7	5489	5586	NORTHSIDE	NIAGARA	0	6	4		9	2	-		4	₩			T
5586         5605         NORTHSIDE         NIAGARA         0         0         3         0         2         1         1         1         4         6           5605         5614         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         1         1         6           5645         5656         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         14         5           5700         5714         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         1         5           5730         S745         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         2         4         5           5730         S745         NORTHSIDE         NIAGARA         10         12         3         9         1         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4	80	BUF-7	5553	5559	NORTHSIDE	NIAGARA										╀	1		T
5605         5614         NORTHSIDE         NIAGARA         0         0         3         6         4         0         1         14         6           5645         5656         MORTHSIDE         NIAGARA         0         3         2         3         1         1         1         4         14         5           5700         5714         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         14         6           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         2         4         6           5730         S745         NORTHSIDE         NIAGARA         10         12         3         9         7         1         6         5           5745         5756         NORTHSIDE         NIAGARA         0         6         2         9         7         4 <t< td=""><td>-</td><td>BUF-7</td><td>5586</td><td>5605</td><td>NORTHSIDE</td><td>NIAGARA</td><td>0</td><td>0</td><td>8</td><td></td><td>0</td><td>2</td><td>-</td><td></td><td>-</td><td>+-</td><td></td><td></td><td>Т</td></t<>	-	BUF-7	5586	5605	NORTHSIDE	NIAGARA	0	0	8		0	2	-		-	+-			Т
5645         5656         NORTHSIDE         NIAGARA         0         9         4         6         2         1         1         23         *           5694         5700         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         14         5           5700         5714         NORTHSIDE         NIAGARA         0         3         3         3         1         1         4         1         6           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         24         5           5730         5745         NORTHSIDE         NIAGARA         10         12         3         9         1         1         5         4 <td< td=""><td></td><td>BUF-7</td><td>5605</td><td>5614</td><td>NORTHSIDE</td><td>NIAGARA</td><td>0</td><td>0</td><td>3</td><td></td><td>9</td><td>4</td><td>0</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td></td<>		BUF-7	5605	5614	NORTHSIDE	NIAGARA	0	0	3		9	4	0		-	-			
5694         5700         NORTHSIDE         NIAGARA         0         3         2         3         1         1         4         14         5           5700         5714         NORTHSIDE         NIAGARA         0         3         3         1         1         4         14         6           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         24         5           5745         5756         NORTHSIDE         NIAGARA         0         6         2         9         0         4         2         1         4         2         5           5756         5770         NORTHSIDE         NIAGARA         0         6         3         9         0         1         4         2         5		BUF-7	5645	5656	NORTHSIDE	NIAGARA	c	o	4		ď	·	_				Under Design+Culvert #118	(In-situ formed	T
5700         5714         NORTHSIDE         NIAGARA         0         3         3         3         1         1         3         14           5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         24           5730         5745         NORTHSIDE         NIAGARA         10         12         3         9         7         1         5         41           5745         5756         NORTHSIDE         NIAGARA         0         6         3         9         0         4         21	ш	BUF-7	5694	5700	NORTHSIDE	NIAGARA	0	6	2		3	4 -	-			+-			T
5714         5730         NORTHSIDE         NIAGARA         0         9         4         6         3         0         2         24           5730         5745         NORTHSIDE         NIAGARA         10         12         3         9         1         1         5         41           5745         5756         NORTHSIDE         NIAGARA         0         6         2         9         0         4         21           5756         5770         NORTHSIDE         NIAGARA         0         6         3         9         0         1         4         23	-	BUF-7	5700	5714	NORTHSIDE	NIAGARA	0	3	3	-	3	-	-		T	+-			T
5730         5745         NORTHSIDE         NIAGARA         10         12         3         9         1         1         5         41           5745         5756         NORTHSIDE         NIAGARA         0         6         2         9         0         0         4         21           5756         5770         NORTHSIDE         NIAGARA         0         6         3         9         0         1         4         23	-	BUF-7	5714	5730	NORTHSIDE	NIAGARA	0	6	4		9	8	0			-			T
5745         5756         NORTHSIDE         NIAGARA         0         6         2         9         C         0         4         21           5756         5770         NORTHSIDE         NIAGARA         0         6         3         9         C         1         4         23	ш]	BUF-7	5730	5745	NORTHSIDE	NIAGARA	10	12	3		6	-	-		T	-			T
5756 5770 NORTHSIDE NIAGARA 0 6 3 9 U 1 4 23	00	BUF-7	5745	5756	NORTHSIDE	NIAGARA	0	9	2		6	ت	0			-			
	8	BUF-7	5756	2770	NORTHSIDE	NIAGARA	0	9	3		6	0	-			-			

\* = under design

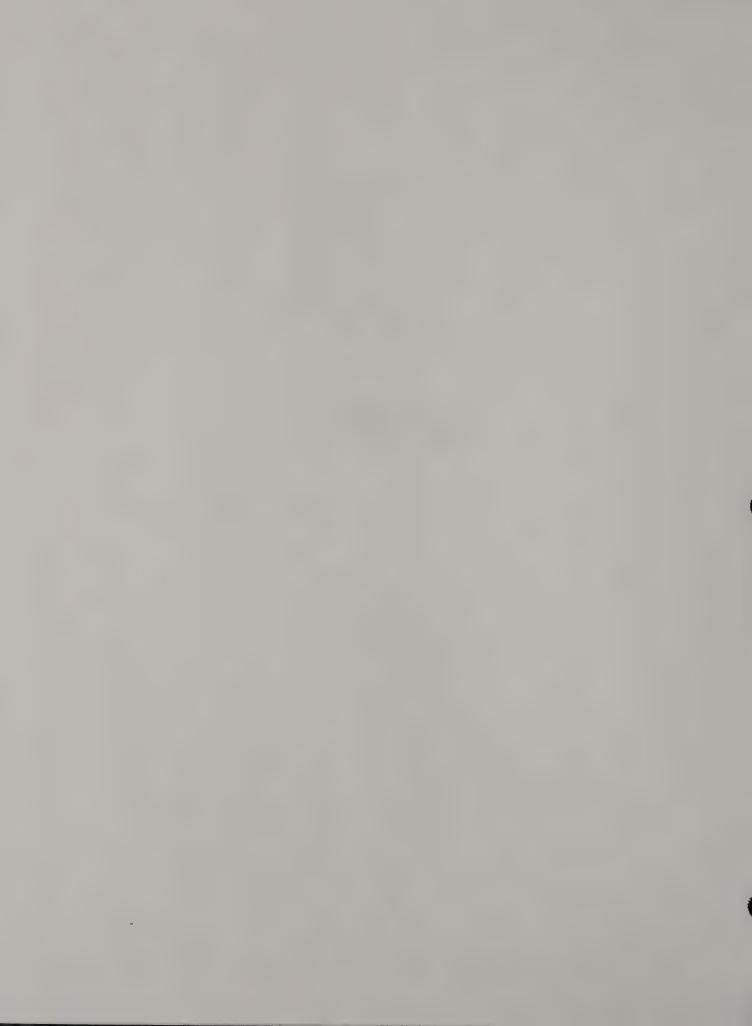
NIAGARA COUNTY - ERIE CANAL - NORTHSIDE



FROM FRATIC CANAL STATIC FROM 5222 5332 5339 5539 5415 5415 5415 5505 5505 5505 5505 5505	SUMMARY FOR 1998 INSPECTION	RISK ASSESSMENT	OFFSET COUNTY P O M O O O O C C R T R D C C C C C C C C C C C C C C C C C C		SOUTHSIDE NIAGARA	SOUTHSIDE NIAGARA 0 3 2 6 5 16 4		SOUTHSIDE         NINGARA         5         12         3         15         1         36         5         CATTAILS ON TOE OF SLOPE	SOUTHSIDE NIAGARA ? ? ? ? * WATSONS WASTE WEIR-UNDER DESIGN	SOUTHSIDE NIAGARA 0 15 5 12 1 33 2 CULVERT #110-WRUCK ROAD	SOUTHSIDE NIGGRA 6	SOUTHSIDE NIAGARA 0 15 4 12 1 32 2 STEEP OBOARD SLOPE-CULVERT #111	SOUTHSIDE NIAGARA 5 1 6 0 0 0 12 <b>6</b> VERY LOW EMBANKMENTS (4-5 FT.).	SOUTHSIDE         NIAGARA         0         9         3         6         1         19         * CULVERT #113-UNDER DESIGN	SOUTHSIDE NIAGARA	SOUTHSIDE NAGARA 6	SOUTHSIDE NIAGARA 0 9 4 12 1 26 4 Inboard repairs completed	SOUTHSIDE NINGARA 5 15 5 12 5 42 <b>4</b> CULVERT #118- OTHER SIDE OF INSITU-FORM	SOUTHSIDE NINGARA 0 15 3 12 4 34 4 CULVERT #119-SAND PIT & GROFF ROAD	SOUTHSIDE NINGARA	SOUTHSIDE NIAGARA 0 15 . 5 12 1 33 * UNDER DESIGN - CULVERT #120	SOUTHSIDE NIAGARA	SOUTHSIDE NINGARA 5 25 3 12 1 46 4 CULVERT #121 EXTENDED	SOUTHSIDE NINGARA 0 0 2 0 4 0 1 7 6 CIII VERT #122
CANAL STATE FROM FROM 5222 522 5339 5339 5415 5415 5415 5416 5586 5586 5586 5586 5586 5586 5586 55			OFFSET		SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE	SOUTHSIDE
			L STATIONING		-			+	+	+	+	+	+	+	+	+	+	+	$\dashv$	1	+	+	+	99 2270
				FRO	-					_									_				_	BUF-7   575



Appendix



## 1998 CANAL IMPOUNDING EMBANKMENT INSPECTIONS GENERAL INFORMATION INSPECTORS a. GEB b. DOT REGION c. CANAL DIVISION LOCATION RESIDENCY SHEET 1 DIVISION 2 SECTION . 3 SHEET NUMBER STATION NORTHSIDE FROM STATION :\_\_\_ SOUTHSIDE TO STATION: EASTSIDE WESTSIDE EMBANKMENT GEOMETRY a. ESTIMATED TOP WIDTH b. ESTIMATED OUTBOARD EMBANKMENT HEIGHT c. OUTBOARD SLOPE =1 VERTICAL ON \_\_\_\_\_ HORIZONTAL d. INBOARD SLOPE = 1 VERTICAL ON \_\_\_\_\_ HORIZONTAL SEEPAGE INDICATORS **LOCATION OF PROBLEM** PROBLEM TOP THIRD OF SLOPE TOE CANNOT BE SEEN-INCONCLUSIVE MIDDLE THIRD OF SLOPE NO SEEPAGE EVIDENT STANDING WATER AT TOE-SOURCE UNKNOWN BOTTOM THIRD OF SLOPE SOFT TO WALK ON SLOPE CATTAILS ON SLOPE SLOUGHED OUTBOARD SLOPE (OLD) FLOWING WATER SINKHOLES



	OUTBOA	RD SLOPE		
a. COVER				
1. GRASS	2. BRUSH	3. TREES	4. RIP RAP 5. OTHER	
b. ANIMAL BURROWS	NO REMARKS REMARKS			
C. DRAINAGE STRUCTURE(S) THROUGH/UNDER SLO	PE NO YE			
4 TVBS		_		
1.1176	2. SIZE 4. INFILTRATION INTO PIPE	3. CONDIT	NO	
			YES	
	5. SEEPAGE AROUND PIPE		NO YES	
	6. COMMENTS			
I. WALL AT TOE	NO HEIGHT (FT) LENGTH (FT) CONDITION			
STREAM AT TOE	NO COMMENTS			
	INBOARD	SLOPE		
ERODED/SLOUGHED		020		
INBOARD SLOPE				
	NO YES	COMMENT_		
WALL	NO CONCRETE SHEETPILE MASONRY OTHER		TION: 1. NO DISTRESS 2. SPALLED 3. CRACKED 4. TILTED 5. DISPLACED	
SLOPE PROTECTION	NO REMARKS		0. DIGI 24025	,
VEGETATION	NO REMARKS			
ANIMAL BURROWS	NO REMARKS			
	ADJACENT TI	ERRAIN		
	LAND SLOPES UP WOODED ACTIVE FARMLAN UNDEVELOPED DEVELOPED	RECREATION RESIDENTIAL		
	REMARKS			



	RANK	YNY	GF			3. WIDE		HAN 20'		AN 1 ON		TELY		ED		PED	TOTAL		
		LC C	SEEPAGE	*	150	LESS THAN 5' WIDE	5	GREATER THAN 20'	5	STEEPER THAN 1 ON	5	COMPLETELY OVERGROWN	50	ERODED	2	DEVELOPED			nded epairs soon nspection heduling
					4	LESS BY 20'	4	20,	4	1 ON 1	4	TREES						RATING SYSTEM	and schedule repart on next 5 year instant of normal schedules of aging
SYSTEM		3	BLEEDING	CATTAILS ON SLOPE	3	LESS BY 15'	3	15'		•			3	SLOUGHING	3	ACTIVE FARMLAND		RAT	1= Immediate emergency contract recommended 2= Begin monitoring system and schedule repairs soon 3= Should be improved prior to next 5 year inspection 4= Should be improved as part of normal scheduling 5= Satisfactory but shows signs of aging 6= Normal aging 7= No Deterioration 7= No Deterioration
L					2	LESS BY 10'	2	10,	2	1 ON 2	2	WOODY GROWTH							1= Immediate emerg 2= Begin monitoring 3= Should be impro 4= Should be impro 5= Satisfactory but 6= Normal aging 7= No Deterioration
98 - RISK ASSES		1	MOIST AREA	SOFT TO WALK ON	1	LESS BY 5'	•	ව					1	SLOPE STABLE	1	WOODED-NO HOMES VISIBLE		IATELY	
1998		0	NONE		0	EQUAL TO OR GREAT OR THAN	0	LESS THAN 5'	0	1V ON 3H OR FLATTER	0	GRASS	0	RIP-RAP IN PLACE	0	LAND SLOPES UPHILL		ENDENT IMMED	ONDITION EXISTS  E JRE, etc.).
	WEIGHTED	2	CRITERIA	Description	3	CRITERIA	-	CRITERIA	3	CRITERIA	7	CRITERIA	-	CRITERIA	-	CRITERIA		SUPERINT	IF A FIELD CC
	PARAMETER		SEEPAGE		TOP WIDTH	(SEE TABLE "A" ATTACHED)	OUTBOARD EMBANKMENT	HEIGHT	OUTBOARD SLOPE	1VERTICAL ON ?? HORIZONTAL	OUTBOARD SLOPE	GROWTH	INBOARD SLOPE	CONDITION (1V ON 2H STANDARD)	ADJACENT TERRAIN			** NOTIFY CANAL SUPERINTENDENT IMMEDIATELY	PLEASE PROVIDE COMMENTS BELOW IF A FIELD CONDITION EXISTS WHICH IS NOT ACCOUNTED FOR WITHIN THE TABLE (e.g. SLOUGHING, EROSION, DISTRESSED STRUCTURE, etc.).



## TABLE A (REORGANIZED)-RECOMMENDED EMBANKMENT TOP WIDTH

SECONIMENDED ENBYNKWENT JOS MIDIH LVBTE V (KEOROVINSED)\*

